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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/812,509	03/20/2001	John W. Garrett	2000-0184A	1810

7590 07/15/2004
Samuel H. Dworetsky
AT&T Corp.
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EXAMINER

KIANERSI, MITRA

ART UNIT PAPER NUMBER

2143

DATE MAILED: 07/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/812,509

Applicant(s)

GARRETT ET AL.

Examiner

mitra kianersi

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 March 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Claims 1-4 have been examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee et al. (US. Patent No. 6,535,493).

1. As per claim 1, a method of operating a router in an access network connected to a plurality of service networks, comprising the steps:
receiving an incoming packet with a source address, (the mobile unit by sending an agent advertisement packet from the access point. Abstract)
decapsulating the packet if the packet is encapsulated, (the apparatus registers the mobile unit with the home agent, encapsulates original data received by the home agent which is destined for the mobile unit, forwards encapsulated data to the foreign agent, and converts the encapsulated data to the original data and delivers the original data to the mobile unit via the foreign agent. Abstract)
comparing the source address of the incoming packet to network addresses allocated to subscribers of services provided by service networks interfaced to the router and service networks not interfaced with the router, (compares the IP destination address to its mobility binding list to see if the address matches with one of its registered mobile units, col 10, lines 4-6)

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if the source address matches a network address allocated to subscribers of services provided by a first service network interfaced to the router, (forwarding the packet to a router in the first service network; and if a match is found, the foreign agent forwards the decapsulated datagram to the mobile unit. Col 10, lines 10-12)

if the source address matches a network address allocated to subscribers of services provided by a second service network not interfaced to the router, optionally encapsulate the packet and tunnel the packet to a router interfaced with the second service network if there is no direct connection to the router. (tunnels the datagram to the mobile unit's currently registered care-of address. Upon receipt of an encapsulated datagram, a foreign agent compares the inner destination address to the entries in its visitor list, col 10, lines 6-10)

2. As per claim 2, wherein the service networks utilize the Internet Protocol and wherein the addresses are Internet Protocol addresses. (the ARP response is sent to the MU with a default address of the current AP's Internet Protocol address in step 460, col 12, lines 49-51).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (US. Patent No. 6,535,493) and further in view of (US. Patent No. 6,608,832)

3. As per claim 3, Lee et al. teach a method of operating a router in an access network connected to a plurality of service networks. Lee et al. fail to teach the

pluralities of service networks are operated by different Internet Service Providers. However, Forslow, in abstract teach a method that relates to mobile communications, and more particularly, to different services and features that may be employed to establish and enhance communications between a mobile station in a mobile communications network and an external network entity. Forslow also on col 5, lines 61-65, teach a bearer that "bears" or carries information from the mobile station through the mobile communications network towards the external network entity and carries information from the external network entity through the mobile communications network to the mobile station. Alternatively, the header of each information packet in an application flow may specify a generally recognized class of service which when read determines whether a circuit-switched bearer or a packet-switched bearer carries that packet (the differential services approach, col 6, lines 10-15).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ a mobile communications network and an external network with selectable packet-switched and circuit-switched and circuit-switched services disclosed by Forslow with Lee's method of operating a router in an access network in order to provide enhanced and efficient applications to end users at lower cost.

4. As per claim 4, Lee et al. teach a method of operating a router in an access network connected to a plurality of service networks. Lee et al. fail to teach the wherein the plurality of service networks offer access to different Internet Protocol-based services. However, Forslow, on teach in the Internet protocol (IP) is used as the backbone to transfer data packets, col 3, lines 33-35).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ a mobile communications network and an external network with selectable packet-switched and circuit-switched and circuit-switched services disclosed by Forslow with Lee's method of operating a router in an access network in order to provide enhanced and efficient applications to end users at lower cost.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mitra Kianersi whose telephone number is (703) 305-4650. The examiner can normally be reached on 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mitra Kianersi
July/07/2004


DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100